



Contra Costa College Course Outline

Department & Number	AUSER 207	Number of Weeks per term	18
Course Title	Hybrid Electric Vehicles Diagnostics and Repairs	Lecture Hours per term	36
Prerequisite	AUSER 107 or Instructor's approval for those working in the automotive industry	Lab Hours per term	27
Co-requisite		*HBA per term	
Prerequisite or concurrently		Activity Hours per term	
Challenge Policy		Units	2.5
Advisory			

***HOURS BY ARRANGEMENT:** Hours per term.

ACTIVITIES: (Please provide a list of the activities students will perform in order to satisfy the HBA requirement):

COURSE DESCRIPTION

This course will provide an interactive approach to advanced service and repair of the more common hybrids. We will perform routine maintenance and repairs as it is prescribed by the manufacturer. We will practice skills in diagnosis and repair of common hybrid units.

COURSE OBJECTIVES

At the completion of the course the student will be able to:

- Demonstrate safe working procedures for standard shop practices and regarding high-voltage circuits.
- Describe the key components of a typical hybrid vehicle power train.
- Explain how to retrieve online hybrid service information from a variety of sources.
- Demonstrate the removal and replacement of HEV components and explain their operational characteristics.

COURSE CONTENT: (In detail; attach additional information as needed and include percentage breakdown)

30	%	Safety and maintenance procedures
35	%	Use of scanners and diagnostic procedures needed to repair HEV
35	%	HEV component replacement and operational characteristics

METHODS OF INSTRUCTION

Lecture
Hands on practice
Video
Demonstrations

INSTRUCTIONAL MATERIALS

Textbook Title:
Author:
Publisher:
Edition/Date:

None available – technology is too new

NOTE: To be UC transferable, the text must be dated within the last 5 years OR a statement of justification for a text beyond the last 5 years must be included.

COURSE EXPECTATIONS (Use applicable expectations)

Outside of Class Weekly Assignments

Hours per week

Weekly Reading Assignments

1

Weekly Writing Assignments

1

Weekly Math Problems

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Lab or Software Application Assignments

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Other Performance Assignments

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STUDENT EVALUATION: (Show percentage breakdown for evaluation instruments)

50	%	Written examinations/quizzes/homework
50	%	Practical lab job sheets
	%	
	%	

GRADING POLICY (Choose LG, CR/NC, or SC)

Letter Grade
 90% - 100% = A
 80% - 89% = B
 70% - 79% = C
 60% - 69% = D
 Below 60% = F

Pass / No Pass
 70% and above = Pass
 Below 70% = No Pass

Student Choice
 90% - 100% = A
 80% - 89% = B
 70% - 79% = C
 60% - 69% = D
 Below 60% = F
or
 70% and above = Pass
 Below 70% = No Pass

Prepared by: Lucile Beatty

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